WBLE-SL ► UECM3463-202305-EZZ ► Quizzes ► 202306UECM34630E4b ► Review of preview						
Info Results Preview Edit						
202306UECM34630E4b						
Start again						
Review of preview						
Started on	Tuesday, 5 September 2023, 10:58 PM	1				
	Tuesday, 5 September 2023, 10:58 PM					
Time taken Marks						
	0 out of a maximum of 10 (0 %)					
1 🕏 Marks: 1	You fit a Gamma distribution to a sar The maximum likelihood estimates a	mple of 10 claim amounts below.				
	Answer:	x				
	Make comment or override grade					
	Incorrect					
	Correct answer: 125.24517					
	Marks for this submission	1: 0/1.				
2.5	Very fit a Common distribution to a service	and of 00 dains an early Very are sincer.				
2 🕝 Marks: 1		mple of 90 claim amounts. You are given:				
Harks. 1	 The maximum likelihood estim ∑ x_i = 13576.56 ∑ ln(x_i) =437.9 	nates are $\alpha^{\circ}=3$ and $\theta^{\circ}=50.28$.				
	Determine the value of the Bayesian	Information Criterion (BIC)				
	Answer:					
	Make comment or override grade					
	Incorrect Correct answer: 1037.719619					
	Marks for this submission: 0/1.					
		<u> </u>				
3 🕏	You fit various models for 36 loss observations using maximum likelihood. The fits maximizing the likelihood for a given number of parameters have the following loglikelihoods:					
Marks: 1		Number of parameters Loglikelihood				
		1 -141.45				
		2 -133.0				
		4 -125.01				
	5 -122.89					
	If BIC is the value of the Bayesian Information Criterion, and k is the number parameters in the selected models. Find BIC+k.					
	Answer:					

	<u> </u>						
Make comment or ove	ride grade						
Incorrect Correct answer: 269							
Marks for this s	ubmission: 0/1.						
4 🕝 Marks: 1	You are given a sample of 5 observations from Pareto(a , θ =1570) distribution: 1,880.38 2,401.76 1,571.06 1,771.18 1,656.29.						
ridiks. 1	Determine the value of the Bayesian Information Criterion (BIC).						
	Answer:						
	Make comment or override grade						
	Incorrect Correct answer: 90.442438						
	Marks for this submission: 0/1.						
5 👺 Marks: 1	You are given a sample of 5 observations from Pareto(a, θ = 1260) distribution: 1,509.30 $1,927.72$ $1,261.05$ $1,421.65$ $1,329.45$						
	Determine the value of the Akaike Information Criterion (AIC)						
	Answer:						
	X X						
	Make comment or override grade						
	Incorrect Correct answer: 88.635						
	Marks for this submission: 0/1.						
C 50	You are given a sample of 10 observations from the following distribution:						
6 ₩ Marks: 1	$f(x) = 1/(2\theta^3)x^2e^{-x/\theta}, x>0$						
	$egin{array}{c ccccccccccccccccccccccccccccccccccc$						
	Determine the value of the Akaike Information Criterion (AIC).						
	Answer:						
	Make comment or override grade						
	Incorrect Correct answer: 109.6						
	Marks for this submission: 0/1.						
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7 🕏 Marks: 1	You fit a Gamma distribution to a sample of 10 claim amounts below.						
	Answer:						
	Make comment or override grade						
	Incorrect						
	Correct answer: 120.5 Marks for this submission: 0/1.						
	•						
8 🗑	You fit various models for 27 loss observations using maximum likelihood. The fits maximizing the likelihood for a given number of parameters have the following loglikelihoods:						
Marks: 1	Number of parameters Loglikelihood 1 -142.1						
	2 -141.63						

3 -139.36 4 -137.67 5 -136.48 If AIC is the value of the Akaike Information Criterion, and K is the number parameters in the selected models. Find AIC+K							
Answer:		x					
Make comment or override grade							
Incorrect Correct answer: 288 Marks for this submission	on: 0/1.						

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